

=&gt; d ibib abs hitstr l8 1-1

L8 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2004:198173 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:247085  
 TITLE: Selective phosphodiesterase 9A inhibitors for the  
 improvement of cognitive processes  
 INVENTOR(S): Boss, Frank-Gerhard; Erb, Christina  
 ; Hendrix, Martin; Van Kampen, Marja  
 ; Wunder, Frank  
 PATENT ASSIGNEE(S): Bayer AG, Germany  
 SOURCE: Ger. Offen., 17 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10238722	A1	20040311	DE 2002-10238722	20020823
CA 2496292	A1	20040401	CA 2003-2496292	20030811
WO 2004026286	A2	20040401	WO 2003-EP8880	20030811
WO 2004026286	A3	20040603		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003258597	A1	20040408	AU 2003-258597	20030811
EP 1534285	A2	20050601	EP 2003-797233	20030811
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006501272	T	20060112	JP 2004-536933	20030811
US 20060100222	A1	20060511	US 2005-525119	20051014
PRIORITY APPLN. INFO.:			DE 2002-10238722	A 20020823
			WO 2003-EP8880	W 20030811

AB The invention discloses the use of selective phosphodiesterase 9A inhibitors for the production of drugs for the improvement of perception, concentration, cognitive processes, learning and/or memory. Preparation and activity of pyrazolopyrimidinone derivs. is included.

IT ~~9068-52-4~~, CGMP phosphodiesterase

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (isoform 9A; phosphodiesterase 9A inhibitors for improvement of cognitive processes)

RN 9068-52-4 HCAPLUS

CN Phosphodiesterase, guanosine cyclic 3',5'-phosphate (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

IT ~~7665-99-8~~, Cyclic GMP

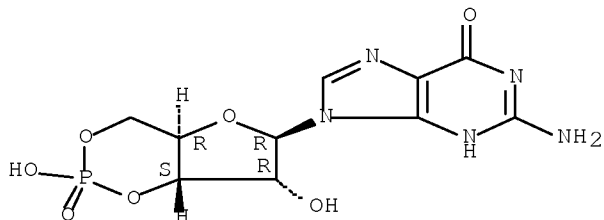
RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (phosphodiesterase 9A inhibitors for improvement of cognitive processes)

RN 7665-99-8 HCAPLUS

10/525,119

CN Guanosine, cyclic 3',5'-(hydrogen phosphate) (CA INDEX NAME)

Absolute stereochemistry.



IT 385271-01-2, GenBank AF056490

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(phosphodiesterase 9A inhibitors for improvement of cognitive processes)

RN 385271-01-2 HCAPLUS

CN DNA (human gene PDE8A adenosine cyclic 3',5'-phosphate phosphodiesterase isoform 8A C-terminal fragment-specifying cDNA plus 3'-flank) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

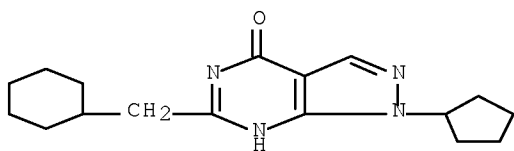
IT 667400-78-4P 667400-79-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(phosphodiesterase 9A inhibitors for improvement of cognitive processes)

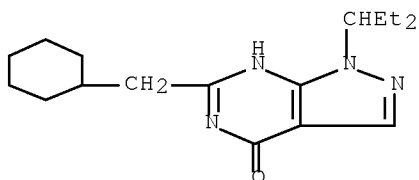
RN 667400-78-4 HCAPLUS

CN 4H-Pyrazolo[3,4-d]pyrimidin-4-one, 6-(cyclohexylmethyl)-1-cyclopentyl-1,5-dihydro- (CA INDEX NAME)



RN 667400-79-5 HCAPLUS

CN 4H-Pyrazolo[3,4-d]pyrimidin-4-one, 6-(cyclohexylmethyl)-1-(1-ethylpropyl)-1,5-dihydro- (CA INDEX NAME)

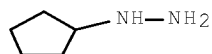


10/525,119

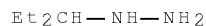
IT 123-06-8 30923-92-3, Cyclopentylhydrazine  
30924-29-9  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(phosphodiesterase 9A inhibitors for improvement of cognitive  
processes)  
RN 123-06-8 HCAPLUS  
CN Propanedinitrile, 2-(ethoxymethylene)- (CA INDEX NAME)



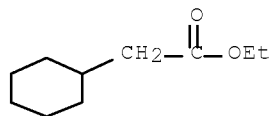
RN 30923-92-3 HCAPLUS  
CN Hydrazine, cyclopentyl- (CA INDEX NAME)



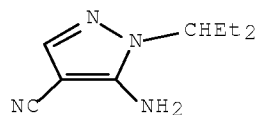
RN 30924-29-9 HCAPLUS  
CN Hydrazine, (1-ethylpropyl)- (CA INDEX NAME)



IT 5452-75-5P 21253-94-1P 30929-67-0P  
666235-33-2P 666235-34-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(phosphodiesterase 9A inhibitors for improvement of cognitive  
processes)  
RN 5452-75-5 HCAPLUS  
CN Cyclohexaneacetic acid, ethyl ester (CA INDEX NAME)



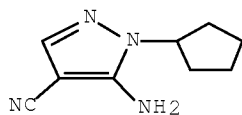
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CN 1H-Pyrazole-4-carbonitrile, 5-amino-1-(1-ethylpropyl)- (CA INDEX NAME)



10/525,119

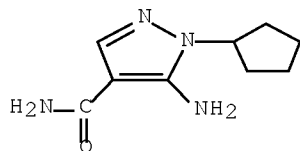
RN 30929-67-0 HCAPLUS

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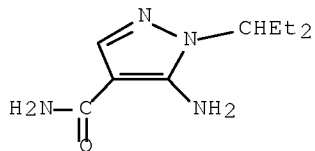
RN 666235-33-2 HCAPLUS

CN 1H-Pyrazole-4-carboxamide, 5-amino-1-cyclopentyl- (CA INDEX NAME)



RN 666235-34-3 HCAPLUS

CN 1H-Pyrazole-4-carboxamide, 5-amino-1-(1-ethylpropyl)- (CA INDEX NAME)



IT 669030-83-5, 1: PN: DE10238722 SEQID: 1 unclaimed DNA

RL: PRP (Properties)

(unclaimed nucleotide sequence; selective phosphodiesterase 9A inhibitors for the improvement of cognitive processes)

RN 669030-83-5 HCAPLUS

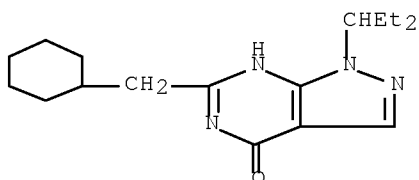
CN 1: PN: DE10238722 SEQID: 1 unclaimed DNA (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

## DISPLAYS OF REQUESTED COMPOUNDS

=&gt; d 19 1-2

L9 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN ~~667400-79-5~~ REGISTRY  
 ED Entered STN: 25 Mar 2004  
 CN 4H-Pyrazolo[3,4-d]pyrimidin-4-one, 6-(cyclohexylmethyl)-1-(1-ethylpropyl)-  
 1,5-dihydro- (CA INDEX NAME)  
 MF C17 H26 N4 O  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL



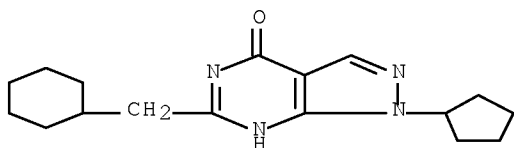
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ED Entered STN: 25 Mar 2004

L9 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN ~~667400-78-4~~ REGISTRY  
 ED Entered STN: 25 Mar 2004  
 CN 4H-Pyrazolo[3,4-d]pyrimidin-4-one, 6-(cyclohexylmethyl)-1-cyclopentyl-1,5-  
 dihydro- (CA INDEX NAME)  
 MF C17 H24 N4 O  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ED Entered STN: 25 Mar 2004

## RESULTS FROM REGISTRY AND CAPLUS

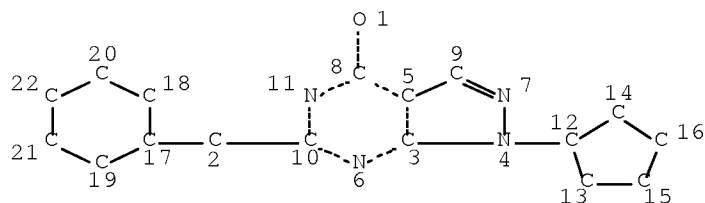
(Compounds were searched by their Reg Numbers and also by structure searches.)

=&gt; d que stat l19

L9 2 SEA FILE=REGISTRY ABB=ON (667400-78-4 OR 667400-79-5)/RN

L10 2 SEA FILE=HCAPLUS ABB=ON L9

L11 STR



## NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

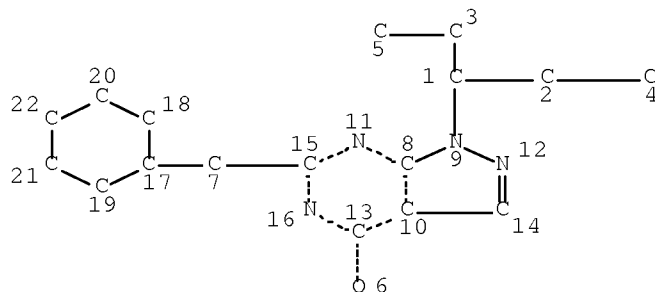
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 22

## STEREO ATTRIBUTES: NONE

L13 2 SEA FILE=REGISTRY SSS FUL L11

L14 STR



## NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 22

## STEREO ATTRIBUTES: NONE

L16 2 SEA FILE=REGISTRY SSS FUL L14

L18 2 SEA FILE=HCAPLUS ABB=ON L13 OR L16

L19 2 SEA FILE=HCAPLUS ABB=ON L10 OR L18

=&gt; d ibib abs hitstr l19 1-2

L19 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:198173 HCAPLUS [Full-text](#)

10/525,119

DOCUMENT NUMBER: 140:247085  
 TITLE: Selective phosphodiesterase 9A inhibitors for the improvement of cognitive processes  
 INVENTOR(S): Boss, Frank-Gerhard; Erb, Christina; Hendrix, Martin; Van Kampen, Marja; Wunder, Frank  
 PATENT ASSIGNEE(S): Bayer AG, Germany  
 SOURCE: Ger. Offen., 17 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10238722	A1	20040311	DE 2002-10238722	20020823
CA 2496292	A1	20040401	CA 2003-2496292	20030811
WO 2004026286	A2	20040401	WO 2003-EP8880	20030811
WO 2004026286	A3	20040603		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003258597	A1	20040408	AU 2003-258597	20030811
EP 1534285	A2	20050601	EP 2003-797233	20030811
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006501272	T	20060112	JP 2004-536933	20030811
US 20060100222	A1	20060511	US 2005-525119	20051014
PRIORITY APPLN. INFO.: DE 2002-10238722 A 20020823				
WO 2003-EP8880 W 20030811				

AB The invention discloses the use of selective phosphodiesterase 9A inhibitors for the production of drugs for the improvement of perception, concentration, cognitive processes, learning and/or memory. Preparation and activity of pyrazolopyrimidinone derivs. is included.

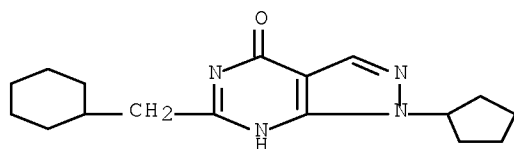
IT ~~667400-78-4P~~ ~~667400-79-5P~~

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

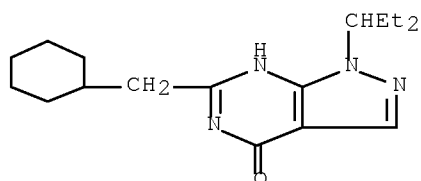
(phosphodiesterase 9A inhibitors for improvement of cognitive processes)

RN 667400-78-4 HCAPLUS

CN 4H-Pyrazolo[3,4-d]pyrimidin-4-one, 6-(cyclohexylmethyl)-1-cyclopentyl-1,5-dihydro- (CA INDEX NAME)



RN 667400-79-5 HCAPLUS  
 CN 4H-Pyrazolo[3,4-d]pyrimidin-4-one, 6-(cyclohexylmethyl)-1-(1-ethylpropyl)-  
 1,5-dihydro- (CA INDEX NAME)

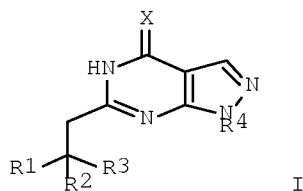


L19 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2004:177919 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:235735  
 TITLE: Preparation of pyrazolopyrimidines as  
 phosphodiesterase PDE9A inhibitors.  
 INVENTOR(S): Hendrix, Martin; Boess, Frank-Gerhard; Burkhardt,  
 Nils; Erb, Christina; Tersteegen, Adrian; Van Kampen,  
 Marja  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Ger. Offen., 28 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10238724	A1	20040304	DE 2002-10238724	20020823
CA 2496308	A1	20040401	CA 2003-2496308	20030813
WO 2004026876	A1	20040401	WO 2003-EP8979	20030813
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003251706	A1	20040408	AU 2003-251706	20030813
EP 1534713	A1	20050601	EP 2003-797239	20030813
EP 1534713	B1	20060111		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006503051	T	20060126	JP 2004-536941	20030813
ES 2256797	T3	20060716	ES 2003-797239	20030813
US 20060111372	A1	20060525	US 2005-524956	20051215
PRIORITY APPLN. INFO.:			DE 2002-10238724	A 20020823
			WO 2003-EP8979	W 20030813

OTHER SOURCE(S): MARPAT 140:235735  
 GI





AB Title compds. [I; R1 = OH, (substituted) alkyl, alkoxy, CO2R5, CONR6R7; R5 = alkyl; R6, R7 = H, aryl, alkyl; NR6R7 = 4-10 membered heterocycle; R2 = H, alkyl, alkoxy; R3 = H, alkyl; R4 = pentan-3-yl, C4-6 cycloalkyl; X = O, S], were prepared Thus, 5-amino-1-cyclopentyl-1H-pyrazole-4-carboxamide (preparation given), Me cyclohexylacetate, and NaH were refluxed 18 h in EtOH to give 31% 6-cyclohexylmethyl-1-cyclopentyl-1,5-dihydro-4H-pyrazolo[3,4-d]pyrimidin-4-one. The latter inhibited PDE9A with IC50 = 5 nM.

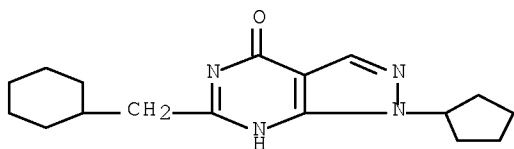
IT 667400-78-4P 667400-79-5P 667870-22-6P 667870-23-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrazolopyrimidines as phosphodiesterase PDE9A inhibitors.)

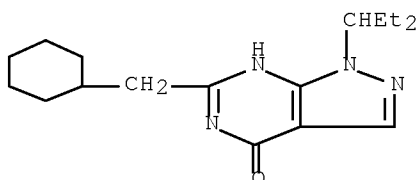
RN 667400-78-4 HCAPLUS

CN 4H-Pyrazolo[3,4-d]pyrimidin-4-one, 6-(cyclohexylmethyl)-1-cyclopentyl-1,5-dihydro- (CA INDEX NAME)



RN 667400-79-5 HCAPLUS

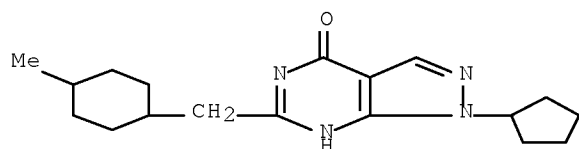
CN 4H-Pyrazolo[3,4-d]pyrimidin-4-one, 6-(cyclohexylmethyl)-1-(1-ethylpropyl)-1,5-dihydro- (CA INDEX NAME)



RN 667870-22-6 HCAPLUS

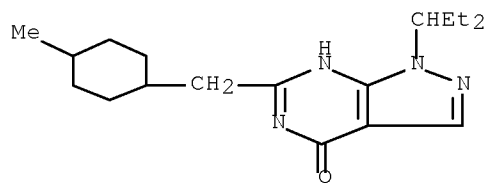
CN 4H-Pyrazolo[3,4-d]pyrimidin-4-one, 1-cyclopentyl-1,5-dihydro-6-[(4-methylcyclohexyl)methyl]- (CA INDEX NAME)

10/525,119



RN 667870-23-7 HCAPLUS

CN 4H-Pyrazolo[3,4-d]pyrimidin-4-one, 1-(1-ethylpropyl)-1,5-dihydro-6-[(4-methylcyclohexyl)methyl]- (CA INDEX NAME)



## SEARCH HISTORY

=&gt; d his ful

(FILE 'HOME' ENTERED AT 17:02:24 ON 04 APR 2008)

FILE 'HCAPLUS' ENTERED AT 17:02:36 ON 04 APR 2008

E BOSS FRANK GERHARD/AU  
 L1 2 SEA ABB=ON "BOSS FRANK GERHARD"/AU  
 E ERB CHRISTINA/AU  
 L2 23 SEA ABB=ON "ERB CHRISTINA"/AU  
 E HENDRIX MARTIN/AU  
 L3 78 SEA ABB=ON "HENDRIX MARTIN"/AU  
 E KAMPEN MARJA/AU  
 E VAN KAMPEN MARJA/AU  
 L4 19 SEA ABB=ON "VAN KAMPEN MARJA"/AU  
 E WUNDER FRANK/AU  
 L5 50 SEA ABB=ON "WUNDER FRANK"/AU  
 L6 1 SEA ABB=ON L1 AND L2 AND L3 AND L4 AND L5  
 SELECT RN L6 1

FILE 'REGISTRY' ENTERED AT 17:04:25 ON 04 APR 2008

L7 14 SEA ABB=ON (123-06-8/BI OR 21253-94-1/BI OR 30923-92-3/BI OR  
 30924-29-9/BI OR 30929-67-0/BI OR 385271-01-2/BI OR 5452-75-5/B  
 I OR 666235-33-2/BI OR 666235-34-3/BI OR 667400-78-4/BI OR  
 667400-79-5/BI OR 669030-83-5/BI OR 7665-99-8/BI OR 9068-52-4/B  
 I)

FILE 'HCAPLUS' ENTERED AT 17:04:32 ON 04 APR 2008

L8 1 SEA ABB=ON L6 AND L7

FILE 'REGISTRY' ENTERED AT 17:07:10 ON 04 APR 2008

L9 2 SEA ABB=ON (667400-78-4 OR 667400-79-5)/RN

FILE 'HCAPLUS' ENTERED AT 17:08:09 ON 04 APR 2008

L10 2 SEA ABB=ON L9

FILE 'REGISTRY' ENTERED AT 17:08:31 ON 04 APR 2008

L11 STRUCTURE 667400-78-4  
 L12 0 SEA SSS SAM L11  
 L13 2 SEA SSS FUL L11  
 L14 STRUCTURE 667400-79-5  
 L15 0 SEA SSS SAM L14  
 L16 2 SEA SSS FUL L14  
 L17 4 SEA ABB=ON L9 OR L13 OR L16

FILE 'HCAPLUS' ENTERED AT 17:10:11 ON 04 APR 2008

L18 2 SEA ABB=ON L13 OR L16  
 L19 2 SEA ABB=ON L10 OR L18

FILE HOME

FILE HCAPLUS

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10/525,119

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FILE COVERS 1907 - 4 Apr 2008 VOL 148 ISS 15  
FILE LAST UPDATED: 3 Apr 2008 (20080403/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

#### FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 APR 2008 HIGHEST RN 1012038-13-9  
DICTIONARY FILE UPDATES: 3 APR 2008 HIGHEST RN 1012038-13-9

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>